10/587.790 12/23/10

APPLICATION NO.

DATE

INVENTOR SEARCH

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L10 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2010 ACS on STN ACCESSION NUMBER: 2005:732653 HCAPLUS Full-text

DOCUMENT NUMBER: 143:211909

TITLE: Preparation of fused beteroaryl derivatives

as p38 kinase inhibitors

INVENTOR(S): Barker, Michael David; Hamblin, Julie Nicole; Jones,

Katherine Louise; Patel, Vipulkumar Kantibhai

; Swanson, Stephen; Walker, Ann Louise PATENT ASSIGNEE(S): Smithkline Beecham Corporation, USA

KIND DATE

SOURCE: PCT Int. Appl., 88 pp.

GI

CODEN: PIXXD2 DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION: PATENT NO.

| | | | 22 20050022 | | | | | | 005 | | | | | | | |
|---|------------|-----|----------------------|------|------|---------------|----------------|-------|------|-----|------|----------|----------|-----|-----|--|
| WO ∠00: | | | | | | WO 2005-GB274 | | | | | | 20050127 | | | | |
| W: | AE, AG, | AL, | AM, | ΑT, | AU, | ΑZ, | BA, | BB, | BG, | BR, | BW, | BY, | ΒZ, | CA, | CH, | |
| | CN, CO, | CR, | CU, | CZ, | DE, | DK, | DM, | DZ, | EC, | EE, | EG, | ES, | FI, | GB, | GD, | |
| | GE, GH, | GM, | HR, | HU, | ID, | IL, | IN, | IS, | JP, | KE, | KG, | KP, | KR, | KZ, | LC, | |
| | LK, LR | LS, | LT, | LU, | LV, | MA, | MD, | MG, | MK, | MN, | MW, | MX, | MZ, | NA, | NI, | |
| | NO, NZ | OM, | PG. | PH, | PL, | PT, | RO, | RU. | SC. | SD, | SE, | SG, | SK, | SL, | SY, | |
| | TJ, TM. | TN. | TR. | TT, | TZ, | UA, | UG, | US, | UZ, | VC. | VN. | YU, | ZA, | ZM. | ZW | |
| RW | BW, GH | GM. | KE. | LS, | MW. | MZ, | NA. | SD, | SL. | SZ. | TZ, | UG, | ZM, | ZW. | AM. | |
| | AZ, BY | KG. | KZ. | MD. | RU. | TJ. | TM. | AT. | BE. | BG. | CH. | CY. | CZ. | DE. | DK. | |
| | EE, ES | | | | | | | | | | | | | | | |
| | RO, SE | | | | | | | | | | | | | | | |
| | MR, NE | | | | | | | | | | | | - ~ / | - , | | |
| EP 1709 | EP 1709046 | | | | | 1011 | EP 2005-702029 | | | | | | 20050127 | | | |
| R: | AT, BE, | CH. | DE. | DK. | ES. | FR. | GB. | GR. | IT. | LI. | LU. | NL. | SE. | MC. | PT. | |
| | IE, SI | | | | | | | | | | | | | | | |
| JP 200 | 7519694 | | T 20070719 JP 2006-5 | | | | | | | | | | | | | |
| US 20070161673 A1 20070712 US 2006-587989 20060729 | | | | | | | | | | | | | | | | |
| PRIORITY APPLIN. INFO.: GB 2004-2137 A 20040130 | | | | | | | | | | | | | | | | |
| WO 2005-GB274 W 20050127 | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT OTHER SOURCE(S): CASREACT 143:211909; MARPAT 143:211909 | | | | | | | | | | | | | | | | |
| OTHER SOURCE | E(S): | | CAS | REAC | T 14 | 3:21 | 1909 | ; MAI | RPAT | 143 | :211 | 909 | | | | |

^{*} STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Title compds. I [A = (un)substituted fused 5-membered heteroaxyl ring AB containing one or two heteroatoms independently selected from O and N; R1 = Me or C1; R2 = NHCOR3 or CONH(CH2)qR4; R3 = H, alkyl, CF3, etc.; R4 = H, cycloalkyl, alkyl, etc.; q = 0-2; X and Y independently = H, Me or halo; W = Nor NO and Z = CH or W = CH and Z = N or NO or W and Z are each independently selected from N and NO] and their pharmaceutically acceptable salts, are prepared and disclosed as p38 kinase inhibitors. Thus, e.g., II was prepared by coupling of N-cyclopropyl-4-methyl-3-(1H-pyrazolo[3,4-c]pyridin-5yl)benzamide (preparation given) with isopropylsulfonylchloride. The activity

of I was evaluated in fluorescence anisotropy kinase binding assays and it was revealed that compds. of the invention displayed IC50 values of <10 μM or pKi values of >6. I as p38 kinase inhibitor should prove useful in the treatment of disease states mediated by p38 kinase. Pharmaceutical compns. comprising I are disclosed.

165245-96-5, p38 Kinase

RL: BSU (Biological study, unclassified); BIOL (Biological study) (preparation of fused heteroaryl derivs. as p38

kinase inhibitors)

165245-96-5 HCAPLUS RN

CN Kinase (phosphorylating), protein, RK (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

862169-93-5P 862169-94-6P 862169-96-8P

862170-24-9P

RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses) (preparation of fused heteroaryl derivs. as p38

kinase inhibitors)

RN 862169-93-5 HCAPLUS

CN Benzamide, N-cyclopropyl-3-fluoro-4-methyl-5-[1-(3-methylphenyl)-1Hpyrazolo[3,4-c]pyridin-5-vl]- (CA INDEX NAME)

862169-94-6 HCAPLUS

CN Benzamide, N-cyclopropyl-4-methyl-3-(1-phenyl-1H-pyrazolo[3,4-c]pyridin-5yl) - (CA INDEX NAME)

RN 862169-96-8 HCAPLUS

CN Benzamide, N-cyclopropyl-3-[1-(2-fluorophenyl)-1H-pyrazolo[3,4-c]pyridin-5vll-4-methvl- (CA INDEX NAME)

- RN 862170-24-9 HCAPLUS
- CN Benzamide, 3-(3-amino-1H-pyrazolo[3,4-b]pyridin-6-yl)-N-cyclopropyl-4-methyl- (CA INDEX NAME)

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862169-84-4P
              862169-85-5P
                              862169-86-6P
                              862169-89-99
862169-87-70
              862169-88-89
862169-90-2P
              862169-91-3P
                              862169-92-4P
862169-95-7P
              862169-97-9P
                              862169-98-0P
862169-99-19
              862170-00-1P
                              862170-01-2P
862170-02-3P
              862170-03-4P
                              862170-04-5P
862170-05-6P
              862170-06-7P
                              862170-07-8P
862170-08-99
              862170-09-0P
                              862170-10-3P
862170-11-4P
              862170-12-5P
                              862170-13-6P
862170-14-7P
              862170-15-8P
                              862170-16-9P
862170-17-0P
              862170-18-1P
                              862170-19-2P
862170-20-5P
              862170-21-6P
                              862170-22-7P
862170-23-8P
              862170-25-0P
                              862170-26-1P
862170-27-2P
              862170-28-3P
                              862170-29-4P
862170-30-7P
              862170-31-8P
                              862170-32-9P
862170-33-0P
              862170-34-1P
                              862170-35-2P
862170-36-3P
              862170-37-4P
                             862170-38-5P
862170-39-6P
              862170-40-9P
                              862170-41-0P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
(Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
```

(preparation of fused heteroaryl derivs. as p38 kinase inhibitors)

- RN 862169-84-4 HCAPLUS
- CN Benzamide, N-cyclopropyl-4-methyl-3-[1-[(1-methylethyl)sulfonyl]-1H-pyrazolo[3,4-c]pyridin-5-yl]- (CA INDEX NAME)

- RN 862169-85-5 HCAPLUS
- CN Benzamide, N-cyclopropyl-4-methyl-3-[1-(2-thienylsulfonyl)-1H-pyrazolo[3,4c]pyridin-5-yl]- (CA INDEX NAME)

- RN 862169-86-6 HCAPLUS
- CN Benzamide, N-cyclopropyl-3-fluoro-4-methyl-5-[1-(2-thienylsulfonyl)-1H-pyrazolo[3,4-c]pyridin-5-yl]- (CA INDEX NAME)

- RN 862169-87-7 HCAPLUS
- CN Benzamide, N-cyclopropyl-3-fluoro-4-methyl-5-[1-(phenylsulfonyl)-1H-pyrazolo[3,4-c]pyridin-5-yl]- (CA INDEX NAME)

- RN 862169-88-8 HCAPLUS
- CN Benzamide, N-cyclopropyl-3-fluoro-4-methyl-5-[1-(3-thienylsulfonyl)-1H-pyrazolo[3,4-c]pyridin-5-yl]- (CA INDEX NAME)

- RN 862169-89-9 HCAPLUS
- ${\tt CN \quad Benzamide, \ N-cyclopropyl-3-fluoro-4-methyl-5-[3-(3-thienylsulfonyl)-1H-10-1]}$

pyrazolo[3,4-c]pyridin-5-yl]- (CA INDEX NAME)

- RN 862169-90-2 HCAPLUS
- CN Benzamide, N-cyclopropyl-3-fluoro-4-methyl-5-[1-(propylsulfonyl)-1H-pyrazolo[3,4-c]pyridin-5-yl]- (CA INDEX NAME)

- RN 862169-91-3 HCAPLUS
- CN Benzamide, N-cyclopropyl-3-fluoro-4-methyl-5-[1-[(1-methylethyl)sulfonyl]-1H-pyrazolo[3,4-c]pyridin-5-yl]- (CA INDEX NAME)

- RN 862169-92-4 HCAPLUS
- CN Benzamide, N-cyclopropyl-3-[1-(cyclopropylsulfonyl)-1H-pyrazolo[3,4-c]pyridin-5-yl]-5-fluoro-4-methyl- (CA INDEX NAME)

- RN 862169-95-7 HCAPLUS
- $\texttt{CN} \qquad \texttt{Benzamide, N-cyclopropy1-3-fluoro-4-methy1-5-[1-(3-methylpheny1)-6-oxido-methylpheny1)-6-oxido-methylpheny1)} \\$

1H-pyrazolo[3,4-c]pyridin-5-y1]- (CA INDEX NAME)

- RN 862169-97-9 HCAPLUS
- CN Benzamide, N-cyclopropyl-4-methyl-3-(6-oxido-1-phenyl-1H-pyrazolo[3,4-c]pyridin-5-yl)- (CA INDEX NAME)

- RN 862169-98-0 HCAPLUS
- CN Benzamide, N-cyclopropyl-3-[1-(2-fluorophenyl)-6-oxido-1H-pyrazolo[3,4-c]pyridin-5-yl]-4-methyl- (CA INDEX NAME)

- RN 862169-99-1 HCAPLUS
- CN Benzamide, N-ethyl-3-fluoro-5-[3-(4-methoxyphenyl)-1H-pyrazolo[4,3c]pyridin-6-yl]-4-methyl- (CA INDEX NAME)

- RN 862170-00-1 HCAPLUS
- CN Benzamide, N-ethyl-3-fluoro-5-[3-(4-methoxyphenyl)-1H-pyrazolo[3,4-

b]pyridin-6-yl]-4-methyl- (CA INDEX NAME)

RN 862170-01-2 HCAPLUS

CN Benzamide, N-ethyl-3-fluoro-5-[3-(4-fluorophenyl)-1H-pyrazolo[4,3-c]pyridin-6-yl]-4-methyl- (CA INDEX NAME)

RN 862170-02-3 HCAPLUS

CN Benzoic acid, 4-[6-[5-[(ethylamino)carbonyl]-2-methylphenyl]-1H-pyrazolo[3,4-b]pyridin-3-yl]-, ethyl ester (CA INDEX NAME)

RN 862170-03-4 HCAPLUS

CN Benzamide, 3-[3-(4-chloro-3-fluorophenyl)-1H-pyrazolo[3,4-b]pyridin-6-yl]N-ethyl-4-methyl- (CA INDEX NAME)

- RN 862170-04-5 HCAPLUS
- CN Benzamide, N-ethyl-3-[3-(3-fluorophenyl)-1H-pyrazolo[3,4-b]pyridin-6-yl]-4methyl- (CA INDEX NAME)

- RN 862170-05-6 HCAPLUS
- CN Benzamide, 3-[3-(4-cyanophenyl)-1H-pyrazolo[3,4-b]pyridin-6-yl]-N-ethyl-4-methyl- (CA INDEX NAME)

- RN 862170-06-7 HCAPLUS
- CN Benzamide, N-ethyl-3-[3-(3-methoxyphenyl)-1H-pyrazolo[3,4-b]pyridin-6-yl]-4-methyl- (CA INDEX NAME)

- RN 862170-07-8 HCAPLUS
- CN Benzamide, N-ethyl-3-[3-(3-fluoro-4-methylphenyl)-1H-pyrazolo[3,4-b]pyridin-6-yl]-4-methyl- (CA INDEX NAME)

- RN 862170-08-9 HCAPLUS
- CN Benzamide, 3-[3-(4-chlorophenyl)-1H-pyrazolo[3,4-b]pyridin-6-yl]-N-ethyl-4-methyl- (CA INDEX NAME)

- RN 862170-09-0 HCAPLUS
- CN Benzamide, 3-[3-[(3,4-difluorophenyl)methyl]-1H-pyrazolo[4,3-c]pyridin-6-yl]-N-ethyl-4-methyl- (CA INDEX NAME)

- RN 862170-10-3 HCAPLUS
- CN Benzamide, 3-[3-(4-chloro-3-fluorophenyl)-1H-pyrazolo[4,3-c]pyridin-6-yl]-N-ethyl-4-methyl- (CA INDEX NAME)

- RN 862170-11-4 HCAPLUS
- $\texttt{CN} \qquad \texttt{Benzamide, 3-[3-[(3-chloropheny1)methy1]-1H-pyrazolo[4,3-c]pyridin-6-y1]-N-1}$

ethyl-4-methyl- (CA INDEX NAME)

RN 862170-12-5 HCAPLUS

CN Benzamide, N-ethyl-3-[3-[(4-fluorophenyl)methyl]-1H-pyrazolo[4,3-c]pyridin-6-yl]-4-methyl- (CA INDEX NAME)

RN 862170-13-6 HCAPLUS

CN Benzamide, N-ethyl-3-[3-(3-methoxyphenyl)-1H-pyrazolo[4,3-c]pyridin-6-yl]-4-methyl- (CA INDEX NAME)

RN 862170-14-7 HCAPLUS

CN Benzamide, 3-[3-(4-chloropheny1)-1H-pyrazolo[4,3-c]pyridin-6-y1]-N-ethyl-4-methyl- (CA INDEX NAME)

RN 862170-15-8 HCAPLUS

CN Benzamide, N-ethyl-3-[3-(3-fluoro-4-methylphenyl)-1H-pyrazolo[4,3-c]pyridin-6-yl]-4-methyl- (CA INDEX NAME)

RN 862170-16-9 HCAPLUS

CN Benzamide, N-ethyl-3-[3-(3-fluorophenyl)-1H-pyrazolo[4,3-c]pyridin-6-yl]-4methyl- (CA INDEX NAME)

RN 862170-17-0 HCAPLUS

CN Benzamide, 3-[3-(4-cyanophenyl)-1H-pyrazolo[4,3-c]pyridin-6-yl]-N-ethyl-4-methyl- (CA INDEX NAME)

- RN 862170-18-1 HCAPLUS
- CN Benzamide, N-ethyl-3-[3-(4-fluorophenyl)-1H-pyrazolo[3,4-b]pyridin-6-yl]-4-methyl- (CA INDEX NAME)

- RN 862170-19-2 HCAPLUS
- CN Benzamide, N-cyclopropyl-3-fluoro-5-[3-(4-fluorophenyl)-1H-pyrazolo[3,4-b]pyridin-6-yl]-4-methyl- (CA INDEX NAME)

- RN 862170-20-5 HCAPLUS
- CN Benzamide, 3-fluoro-5-[3-(4-fluorophenyl)-1H-pyrazolo[3,4-b]pyridin-6-yl]-4-methyl-N-(1-methyl-1H-pyrazol-5-yl)- (CA INDEX NAME)

- RN 862170-21-6 HCAPLUS
- CN Benzamide, 3-fluoro-5-[3-(4-fluorophenyl)-1-methyl-1H-pyrazolo[3,4-b]pyridin-6-yl]-4-methyl-N-(1-methyl-1H-pyrazol-5-yl)- (CA INDEX NAME)

- RN 862170-22-7 HCAPLUS
- CN Benzamide, 3-fluoro-5-[3-(4-fluorophenyl)-1H-pyrazolo[4,3-c]pyridin-6-yl]-4-methyl-N-(1-methyl-1H-pyrazol-5-yl)- (CA INDEX NAME)

- RN 862170-23-8 HCAPLUS
- CN Benzamide, 3-fluoro-5-[3-(4-fluorophenyl)-1-methyl-1H-pyrazolo[4,3-c]pyridin-6-yl]-4-methyl-N-(1-methyl-1H-pyrazol-5-yl)- (CA INDEX NAME)

- RN 862170-25-0 HCAPLUS
- CN Benzamide, 3-[3-(acetylamino)-1H-pyrazolo[3,4-b]pyridin-6-yl]-N-cyclopropyl-4-methyl- (CA INDEX NAME)

- RN 862170-26-1 HCAPLUS
- CN Benzamide, N-cyclopropyl-3-[3-[(4-fluorobenzoy1)amino]-1H-pyrazolo[3,4-b]pyridin-6-yl]-4-methyl- (CA INDEX NAME)

- RN 862170-27-2 HCAPLUS
- CN Benzamide, N-cyclopropy1-4-methy1-3-[3-[(2-methy1-1-oxopropy1)amino]-1H-pyrazolo[3,4-b]pyridin-6-y1]- (CA INDEX NAME)

- RN 862170-28-3 HCAPLUS
- CN Benzamide, 3-[3-[(cyclopentylcarbonyl)amino]-1H-pyrazolo[3,4-b]pyridin-6-yl]-N-cyclopropyl-4-methyl- (CA INDEX NAME)

- RN 862170-29-4 HCAPLUS
- CN Benzamide, N-cyclopropy1-4-methy1-3-[3-[(1-oxopropy1)amino]-1Hpyrazolo[3,4-b]pyridin-6-y1]- (CA INDEX NAME)

- RN 862170-30-7 HCAPLUS
- CN Benzamide, N-cyclopropyl-4-methyl-3-[3-[(4-methylbenzoyl)amino]-1Hpyrazolo[3,4-b]pyridin-6-yl]- (CA INDEX NAME)

- RN 862170-31-8 HCAPLUS
- CN Benzamide, N-cyclopropyl-3-[3-[(4-methoxybenzoyl)amino]-1H-pyrazolo[3,4-b]pyridin-6-yl]-4-methyl- (CA INDEX NAME)

- RN 862170-32-9 HCAPLUS
- CN 2-Thiophenecarboxamide, N-[6-[5-[(cyclopropylamino)carbonyl]-2-methylphenyl]-1H-pyrazolo[3,4-b]pyridin-3-yl]- (CA INDEX NAME)

- RN 862170-33-0 HCAPLUS
- CN Benzamide, N-cyclopropyl-4-methyl-3-[3-[(methylsulfonyl)amino]-1Hpyrazolo[3,4-b]pyridin-6-yl]- (CA INDEX NAME)

- RN 862170-34-1 HCAPLUS
- CN Benzamide, N-cyclopropyl-3-[3-[[(4-fluorophenyl)sulfonyl]amino]-1Hpyrazolo[3,4-b]pyridin-6-yl]-4-methyl- (CA INDEX NAME)

- RN 862170-35-2 HCAPLUS
- CN Benzamide, N-cyclopropyl-3-[3-[(ethylsulfonyl)amino]-1H-pyrazolo[3,4-b]pyridin-6-yl]-4-methyl- (CA INDEX NAME)

- RN 862170-36-3 HCAPLUS
- CN Benzamide, N-cyclopropy1-4-methyl-3-[3-[(propylsulfonyl)amino]-1Hpyrazolo[3,4-b]pyridin-6-yl]- (CA INDEX NAME)

- RN 862170-37-4 HCAPLUS
- CN Benzamide, N-cyclopropyl-4-methyl-3-[3-[(3-thienylsulfonyl)amino]-1Hpyrazolo[3,4-b]pyridin-6-yl]- (CA INDEX NAME)

- RN 862170-38-5 HCAPLUS
- CN Benzamide, N-cyclopropyl-3-[3-[[(3,5-dimethyl-4-isoxazolyl)sulfonyl]amino]-1H-pyrazolo[3,4-b]pyridin-6-yl]-4-methyl- (CA INDEX NAME)

- RN 862170-39-6 HCAPLUS
- CN Benzamide, N-cyclopropyl-4-methyl-3-[3-[(2-thienylsulfonyl)amino]-1H-pyrazolo[3,4-b]pyridin-6-yl]- (CA INDEX NAME)

- RN 862170-40-9 HCAPLUS
- CN Benzamide, N-cyclopropyl-4-methyl-3-[3-[(1-methylethyl)amino]-1Hpyrazolo[3,4-b]pyridin-6-yl]- (CA INDEX NAME)

- RN 862170-41-0 HCAPLUS
- CN Benzamide, 3-(3-bromo-1H-pyrazolo[3,4-b]pyridin-6-yl)-N-cyclopropyl-4-methyl- (CA INDEX NAME)

IT 67-64-1, Acetone, reactions 79-03-6, Propionyl chloride 79-30-1, Isobutyryl chloride 98-09-9, Phenylsulfonyl chloride 100-07-2, p-Anisoyl chloride 100-63-0, Phenylhydrazine 349-88-2, 4-Fluorobenzenesulfonyl chloride 350-28-7, 3-Fluoro-4-methylbenzoic acid 403-43-0, 4-Fluorobenzoyl chloride 536-89-6, (3-Methylphenyl)hydrazine 374-60-2, p-Toluoyl chloride 1192-21-8, 5-Amino-1-methylpyrazole 2368-80-1, 2-Fluorophenylhydrazine 4524-93-0, Cyclopentanecarbonyl chloride 5271-67-0,

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2-Thiophenecarbonyl chloride 18147-36-1, Propanesulfonyl
    chloride 10147-37-2, Isopropylsulfonylchloride
    16110-09-1, 2,5-Dichloropyridine 16629-19-9,
    2-Thiophenesulfonyl chloride 23056-33-9,
    2-Chloro-4-methyl-5-nitropyridine 38496-18-3,
    2,6-Dichloronicotinic acid 40381-90-6,
    2,6-Dichloro-3-pyridinecarbonitrile 51175-71-4,
    3-Thiophenesulfonyl chloride 73027-79-9 73183-34-3
    80466-79-1, 3.5-Dimethyl-4-isoxazolesulfonyl chloride
    131379-14-1, 4-Cvanophenylzinc bromide 131379-16-3,
    (4-Ethoxycarbonyl)phenylzinc iodide 139631-62-2,
    Cyclopropylsulfonyl chloride 151073-70-0 181705-93-1
    , 4-Fluorophenylzinc bromide 220213-92-3, 4-Cyanophenylzinc
            254454-47-2, 4-Methoxyphenylzinc iodide
    300825-30-3 307496-28-2, 3-Fluorophenylzinc iodide
    312693-08-6 312693-42-8 515131-35-8,
    4-Methyl-3-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-vl)benzoic acid
    515135-67-8, N-Cyclopropy1-4-methy1-3-(4,4,5,5-tetramethy1-1,3,2-
    dioxaborolan-2-yl)benzamide 585544-30-5,
    [5-[(Cyclopropylamino)carbonyl]-3-fluoro-2-methylphenyl]boronic acid
    862170-79-4 862170-82-9 862170-85-2
    RL: RCT (Reactant); RACT (Reactant or reagent)
       (preparation of fused heteroarvl derivs. as p38
       kinase inhibitors)
    67-64-1 HCAPLUS
RN
    2-Propanone (CA INDEX NAME)
```

CN

RN 79-03-8 HCAPLUS

CN Propanovi chloride (CA INDEX NAME)

RN 79-30-1 HCAPLUS

CN Propanoyl chloride, 2-methyl- (CA INDEX NAME)

RN 98-09-9 HCAPLUS

CN Benzenesulfonyl chloride (CA INDEX NAME)

RN 100-07-2 HCAPLUS

CN Benzoyl chloride, 4-methoxy- (CA INDEX NAME)

RN 100-63-0 HCAPLUS

CN Hydrazine, phenyl- (CA INDEX NAME)

H2N-NH-Ph

RN 349-88-2 HCAPLUS

CN Benzenesulfonyl chloride, 4-fluoro- (CA INDEX NAME)

RN 350-28-7 HCAPLUS

CN Benzoic acid, 3-fluoro-4-methyl- (CA INDEX NAME)

RN 403-43-0 HCAPLUS

CN Benzoyl chloride, 4-fluoro- (CA INDEX NAME)

- RN 536-89-0 HCAPLUS
- CN Hydrazine, (3-methylphenyl) (CA INDEX NAME)

- RN 874-60-2 HCAPLUS
- CN Benzoyl chloride, 4-methyl- (CA INDEX NAME)

- RN 1192-21-8 HCAPLUS
- CN 1H-Pyrazol-5-amine, 1-methyl- (CA INDEX NAME)

- RN 2368-80-1 HCAPLUS
- CN Hydrazine, (2-fluorophenyl) (CA INDEX NAME)

- RN 4524-93-0 HCAPLUS
- CN Cyclopentanecarbonyl chloride (CA INDEX NAME)

- RN 5271-67-0 HCAPLUS
- CN 2-Thiophenecarbonyl chloride (CA INDEX NAME)

RN 10147-36-1 HCAPLUS

CN 1-Propanesulfonyl chloride (CA INDEX NAME)

RN 10147-37-2 HCAPLUS CN 2-Propanesulfonyl chloride (CA INDEX NAME)

RN 16110-09-1 HCAPLUS

CN Pyridine, 2,5-dichloro- (CA INDEX NAME)

RN 16629-19-9 HCAPLUS

CN 2-Thiophenesulfonyl chloride (CA INDEX NAME)

RN 23056-33-9 HCAPLUS

CN Pyridine, 2-chloro-4-methyl-5-nitro- (CA INDEX NAME)

- RN 38496-18-3 HCAPLUS
- CN 3-Pyridinecarboxylic acid, 2,6-dichloro- (CA INDEX NAME)

- RN 40381-90-6 HCAPLUS
- CN 3-Pyridinecarbonitrile, 2,6-dichloro- (CA INDEX NAME)

- RN 51175-71-4 HCAPLUS
- CN 3-Thiophenesulfonyl chloride (CA INDEX NAME)

$$\sum_{\infty}^{s} c_1$$

- RN 73027-79-9 HCAPLUS
- CN 3-Pyridinecarboxylic acid, 4,6-dichloro- (CA INDEX NAME)

- RN 73183-34-3 HCAPLUS
- CN 2,2'-Bi-1,3,2-dioxaborolane, 4,4,4',4',5,5,5',5'-octamethyl- (CA INDEX NAME)

$$\begin{array}{c} \text{Me} \\ \text{Me} \\ \text{Me} \\ \text{Me} \end{array} \begin{array}{c} \text{B} \\ \text{B} \\ \text{Me} \\ \text{Me} \end{array}$$

RN 80466-79-1 HCAPLUS

CN 4-Isoxazolesulfonyl chloride, 3,5-dimethyl- (CA INDEX NAME)

RN 131379-14-1 HCAPLUS

CN Zinc, bromo(4-cyanophenyl)- (CA INDEX NAME)

RN 131379-16-3 HCAPLUS

CN Zinc, [4-(ethoxycarbonyl)phenyl]iodo- (CA INDEX NAME)

RN 139631-62-2 HCAPLUS

CN Cyclopropanesulfonyl chloride (CA INDEX NAME)

RN 151073-70-0 HCAPLUS

CN Zinc, (4-chlorophenyl)iodo- (CA INDEX NAME)

RN 181705-93-1 HCAPLUS

CN Zinc, bromo(4-fluorophenyl)- (CA INDEX NAME)

RN 220213-92-3 HCAPLUS

CN Zinc, (4-cyanophenyl)iodo- (CA INDEX NAME)

RN 254454-47-2 HCAPLUS

CN Zinc, iodo(4-methoxyphenyl)- (CA INDEX NAME)

RN 300825-30-3 HCAPLUS

CN Zinc, iodo(3-methoxyphenyl) - (CA INDEX NAME)

RN 307496-28-2 HCAPLUS

CN Zinc, (3-fluorophenyl)iodo- (CA INDEX NAME)

RN 312693-08-6 HCAPLUS

CN Zinc, (3-fluoro-4-methylphenyl)iodo- (CA INDEX NAME)

RN 312693-42-8 HCAPLUS

CN Zinc, (4-chloro-3-fluorophenyl)iodo- (CA INDEX NAME)

- RN 515131-35-8 HCAPLUS
- CN Benzoic acid, 4-methyl-3-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)-(CA INDEX NAME)

- RN 515135-67-8 HCAPLUS
- CN Benzamide, N-cyclopropy1-4-methy1-3-(4,4,5,5-tetramethy1-1,3,2-dioxaborolan-2-y1)- (CA INDEX NAME)

- RN 585544-30-5 HCAPLUS
- CN Boronic acid, B-[5-[(cyclopropylamino)carbony1]-3-fluoro-2-methylpheny1]-(CA INDEX NAME)

- RN 862170-79-4 HCAPLUS
- CN Zinc, [(3,4-difluorophenyl)methyl]iodo- (CA INDEX NAME)

10/587.790 12/23/10

862170-82-9 HCAPLUS

CN Zinc, [(3-chlorophenyl)methyl]iodo- (CA INDEX NAME)

- RN 862170-85-2 HCAPLUS
- Zinc, [(4-fluorophenyl)methyl]iodo- (CA INDEX NAME)

```
102645-33-0P 861905-31-9P 861905-38-6P
861905-43-3P 861905-50-2P 861905-51-3P
861905-94-4P 862170-42-1P
                           862170-43-2P
862170-44-3P 862170-45-4P
                           862170-46-5P
862170-47-6P 862170-48-7P 862170-49-8P
862170-50-1P 862170-51-2P 862170-52-3P
862170-53-4P 862170-54-5P 862170-55-6P
862170-56-7P 862170-57-8P 862170-58-9P
862170-59-0P
            862170-60-3P
                          862170-61-4P
862170-62-5P
            862170-63-6P
```

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of fused heteroaryl derivs. as p38

- kinase inhibitors) 102645-33-0 HCAPLUS
- RN
- CN 4-Pyridinecarboxaldehyde, 2,5-dichloro- (CA INDEX NAME)

- RN 861905-31-9 HCAPLUS
- Benzamide, N-ethyl-4-methyl-3-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-CN v1)- (CA INDEX NAME)

RN 861905-38-6 HCAPLUS

CN Benzamide, N-ethyl-3-fluoro-5-iodo-4-methyl- (CA INDEX NAME)

RN 861905-43-3 HCAPLUS

CN Benzamide, N-ethyl-3-fluoro-4-methyl-5-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)- (CA INDEX NAME)

RN 861905-50-2 HCAPLUS

CN Benzamide, 3-fluoro-5-iodo-4-methyl-N-(1-methyl-1H-pyrazol-5-yl)- (CA INDEX NAME)

RN 861905-51-3 HCAPLUS

CN Benzamide, 3-fluoro-4-methyl-N-(1-methyl-1H-pyrazol-5-yl)-5-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)- (CA INDEX NAME)

- RN 861905-94-4 HCAPLUS
- CN Benzoic acid, 3-fluoro-5-iodo-4-methyl- (CA INDEX NAME)

- RN 862170-42-1 HCAPLUS
- CN Benzamide, 3-(5-amino-4-methyl-2-pyridinyl)-N-cyclopropyl-4-methyl- (CA INDEX NAME)

- RN 862170-43-2 HCAPLUS
- CN Benzamide, 3-(1-acetyl-1H-pyrazolo[3,4-c]pyridin-5-yl)-N-cyclopropyl-4-methyl- (CA INDEX NAME)

- RN 862170-44-3 HCAPLUS
- CN Benzamide, N-cyclopropyl-4-methyl-3-(1H-pyrazolo[3,4-c]pyridin-5-yl)- (CA INDEX NAME)

- RN 862170-45-4 HCAPLUS
- CN Benzamide, N-cyclopropyl-3-fluoro-4-methyl-5-(4-methyl-5-nitro-2-pyridinyl)- (CA INDEX NAME)

- RN 862170-46-5 HCAPLUS
- CN Benzamide, 3-(5-amino-4-methyl-2-pyridinyl)-N-cyclopropyl-5-fluoro-4-methyl- (CA INDEX NAME)

- RN 862170-47-6 HCAPLUS
- CN Benzamide, 3-[5-(acetylamino)-4-methyl-2-pyridinyl]-N-cyclopropyl-5-fluoro-4-methyl- (CA INDEX NAME)

- RN 862170-48-7 HCAPLUS
- CN Benzamide, N-cyclopropyl-3-fluoro-4-methyl-5-(1H-pyrazolo[3,4-c]pyridin-5-yl)- (CA INDEX NAME)

- RN 862170-49-8 HCAPLUS
- CN Methanediol, 1-(2,5-dichloro-4-pyridinyl)-, 1,1-diacetate (CA INDEX NAME)

RN 862170-50-1 HCAPLUS

CN Benzamide, 3-(5-chloro-4-formyl-2-pyridinyl)-N-cyclopropyl-5-fluoro-4-methyl- (CA INDEX NAME)

RN 862170-51-2 HCAPLUS

CN Methanone, (4,6-dichloro-3-pyridinyl)(4-methoxyphenyl)- (CA INDEX NAME)

RN 862170-52-3 HCAPLUS

CN Benzamide, 3-[4-chloro-5-(4-methoxybenzoy1)-2-pyridiny1]-N-ethy1-5-fluoro-4-methy1- (CA INDEX NAME)

RN 862170-53-4 HCAPLUS

CN Methanone, (2,6-dichloro-3-pyridinyl)(4-methoxyphenyl)- (CA INDEX NAME)

- RN 862170-54-5 HCAPLUS
- CN Benzamide, 3-[6-chloro-5-(4-methoxybenzoy1)-2-pyridiny1]-N-ethyl-5-fluoro-4-methyl- (CA INDEX NAME)

- RN 862170-55-6 HCAPLUS
- CN Methanone, (4,6-dichloro-3-pyridinyl)(4-fluorophenyl)- (CA INDEX NAME)

- RN 862170-56-7 HCAPLUS
- CN Benzamide, 3-[4-chloro-5-(4-fluorobenzoyl)-2-pyridinyl]-N-ethyl-5-fluoro-4methyl- (CA INDEX NAME)

- RN 862170-57-8 HCAPLUS
- CN Benzonitrile, 4-[(4,6-dichloro-3-pyridinyl)carbonyl]- (CA INDEX NAME)

- RN 862170-58-9 HCAPLUS
- CN Methanone, (2,6-dichloro-3-pyridinyl)(4-fluorophenyl)- (CA INDEX NAME)

RN 862170-59-0 HCAPLUS

CN Benzamide, 3-[6-chloro-5-(4-fluorobenzoyl)-2-pyridinyl]-N-ethyl-4-methyl-(CA INDEX NAME)

RN 862170-60-3 HCAPLUS

CN Benzamide, 3-[6-chloro-5-(4-fluorobenzoy1)-2-pyridiny1]-N-cyclopropy1-5fluoro-4-methyl- (CA INDEX NAME)

RN 862170-61-4 HCAPLUS

CN Benzamide, 3-[6-chloro-5-(4-fluorobenzoy1)-2-pyridiny1]-5-fluoro-4-methyl-N-(1-methyl-1H-pyrazol-5-yl)- (CA INDEX NAME)

RN 862170-62-5 HCAPLUS

CN Benzamide, 3-[4-chloro-5-(4-fluorobenzoy1)-2-pyridiny1]-5-fluoro-4-methyl-N-(1-methyl-1H-pyrazol-5-yl)- (CA INDEX NAME)

10/587.790 12/23/10

TOTAL.

84.39

TOTAL

SESSION

862170-63-6 HCAPLUS RN

CN Benzamide, 3-(6-chloro-5-cyano-2-pyridinyl)-N-cyclopropyl-4-methyl- (CA INDEX NAME)

OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD

(2 CITINGS)

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> file rea COST IN U.S. DOLLARS SINCE FILE ENTRY FULL ESTIMATED COST 14.54 DISCOUNT AMOUNTS (FOR OUALIFYING ACCOUNTS) SINCE FILE

ENTRY SESSION CA SUBSCRIBER PRICE -0.85-0.85

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=> structure 862170-48-7

ENTER (DIS), GRA, NOD, BON OR ?: dis

ENTER (DIS), GRA, NOD, BON OR ?: del 5 1 22 21 23, dis

$$\begin{array}{c} 11 & 10 & 0.8 & 13 & 18 \\ 11 & 0.0 & 0.6 & 0.6 & 0.6 \\ 12 & 0.0 & 0.6 & 0.6 & 0.6 \\ 14 & 0.0 & 0.6 & 0.6 \\ 14 & 0.0 & 0.6 \\ 14 & 0.0 & 0.6 \\ 14 & 0.0 & 0.6 \\ 14 & 0.0 & 0.6 \\ 14 & 0.0 & 0.6 \\ 14 &$$

ENTER (DIS), GRA, NOD, BON OR ?:end

L11 STRUCTURE CREATED

=> s 111

SAMPLE SEARCH INITIATED 12:29:52 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 68 TO ITERATE

100.0% PROCESSED 68 ITERATIONS 2 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**

PROJECTED ITERATIONS: 866 TO 1854
PROJECTED ANSWERS: 2 TO 124

L12 2 SEA SSS SAM L11

=> d scan

L12 2 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN

IN Benzamide, N-cyclopropyl-3-fluoro-4-methyl-5-[1-(3-methylphenyl)-6-oxido-1H-pyrazolo[3,4-c]pyridin-5-yl]-

MF C24 H21 F N4 O2

10/587.790 12/23/10

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

- L12 2 ANSWERS REGISTRY COPYRIGHT 2010 ACS on STN
- Benzamide, N-cyclopropyl-3-fluoro-4-methyl-5-[3-(3-thienylsulfonyl)-1Hpyrazolo[3,4-c]pyridin-5-y1]-
- C21 H17 F N4 O3 S2 ME

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

=> d his

(FILE 'HOME' ENTERED AT 12:13:54 ON 23 DEC 2010)

FILE 'HCAPLUS' ENTERED AT 12:14:56 ON 23 DEC 2010

E BAMBOROUGH PAUL/AU

L1 51 S E2-4

> FILE 'REGISTRY' ENTERED AT 12:26:15 ON 23 DEC 2010 E CAMPOS SEBASTIEN/CN

FILE 'HCAPLUS' ENTERED AT 12:26:15 ON 23 DEC 2010

E CAMPOS SEBASTIEN/AU

L2 3 S E2-3

E PATEL VIPULKUMAR/AU

69 S E1-6

0 S L1 AND L2 AND L3

L4L5 118 S L1 OR L2 OR L3

L6 16 S L5 AND ?HETEROARYL?

9 S L6 AND P38 L7

10/587.790 12/23/10

9 S L7 AND P38(W)?KINASE? SELECT RN L8 1-9 DELETE SELECT SELECT RN L8 1

FILE 'REGISTRY' ENTERED AT 12:27:52 ON 23 DEC 2010

131 S E1-131

FILE 'HCAPLUS' ENTERED AT 12:28:01 ON 23 DEC 2010 9 S L8 AND L9

FILE 'REGISTRY' ENTERED AT 12:29:34 ON 23 DEC 2010

STRUCTURE 862170-48-7

T.12 2 S T.11

=> s 111 ful

1.8

FULL SEARCH INITIATED 12:30:05 FILE 'REGISTRY' FULL SCREEN SEARCH COMPLETED - 1517 TO ITERATE

100.0% PROCESSED 1517 ITERATIONS

21 ANSWERS SEARCH TIME: 00.00.01

L13 21 SEA SSS FUL L11

=> file hcaplus

COST IN U.S. DOLLARS SINCE FILE TOTAL ENTRY SESSION 275.93 FULL ESTIMATED COST 191.54 DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) SINCE FILE TOTAL

ENTRY SESSION CA SUBSCRIBER PRICE 0.00 -0.85

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FILE COVERS 1907 - 23 Dec 2010 VOL 153 ISS 26 FILE LAST UPDATED: 22 Dec 2010 (20101222/ED) REVISED CLASS FIELDS (/NCL) LAST RELOADED: Aug 2010 USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Aug 2010

HCAplus now includes complete International Patent Classification (IPC) reclassification data for the fourth quarter of 2010.

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This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d his (FILE 'HOME' ENTERED AT 12:13:54 ON 23 DEC 2010) FILE 'HCAPLUS' ENTERED AT 12:14:56 ON 23 DEC 2010 E BAMBOROUGH PAUL/AU 51 S E2-4 FILE 'REGISTRY' ENTERED AT 12:26:15 ON 23 DEC 2010 E CAMPOS SEBASTIEN/CN FILE 'HCAPLUS' ENTERED AT 12:26:15 ON 23 DEC 2010 E CAMPOS SEBASTIEN/AU 3 S E2-3 L2 E PATEL VIPULKUMAR/AU L3 69 S E1-6 L4 0 S L1 AND L2 AND L3 118 S L1 OR L2 OR L3 L5 16 S L5 AND ?HETEROARYL? L6 L7 9 S L6 AND P38 L8 9 S L7 AND P38(W)?KINASE? SELECT RN L8 1-9 DELETE SELECT SELECT RN L8 1 FILE 'REGISTRY' ENTERED AT 12:27:52 ON 23 DEC 2010 L9 131 S E1-131 FILE 'HCAPLUS' ENTERED AT 12:28:01 ON 23 DEC 2010 9 S L8 AND L9 FILE 'REGISTRY' ENTERED AT 12:29:34 ON 23 DEC 2010 Lll STRUCTURE 862170-48-7 L12 2 S L11 21 S L11 FUL L13 FILE 'HCAPLUS' ENTERED AT 12:30:08 ON 23 DEC 2010 => s 113 L14 1 L13 => d au L14 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2010 ACS on STN IN Barker, Michael David; Hamblin, Julie Nicole; Jones, Katherine Louise; Patel, Vipulkumar Kantibhai; Swanson, Stephen; Walker, Ann Louise => _

---> d que stat 114 L11 STR

NODE ATTRIBUTES: DEFAULT MLEVEL IS ATOM DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 18

STEREO ATTRIBUTES: NONE

L13 21 SEA FILE=REGISTRY SSS FUL L11 L14 1 SEA FILE=HCAPLUS ABB=ON L13

=> d ibib abs hitstr 114 1

L14 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2010 ACS on STN ACCESSION NUMBER: 2005:732653 HCAPLUS Full-text

DOCUMENT NUMBER: 143:211909

TITLE: Preparation of fused heteroaryl derivatives as p38

kinase inhibitors

INVENTOR(S): Barker, Michael David; Hamblin, Julie Nicole; Jones,

Katherine Louise; Patel, Vipulkumar Kantibhai; Swanson, Stephen; Walker, Ann Louise

PATENT ASSIGNEE(S): Smithkline Beecham Corporation, USA

SOURCE: PCT Int. Appl., 88 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | | | | | KIND DA | | | | i | | CATION NO. | | | | DATE | | |
|------------|------------|-----|-----|-----|---------|----------|------|---------------|-----|------|------------|----------|-----|----------|------|-----|-----|
| | | | | A1 | _ | 20050811 | | WO 2005-GB274 | | | | | | | | | |
| | W: | ΑE, | AG, | AL, | AM, | AT, | AU, | AZ, | BA, | BB, | BG, | BR, | BW, | BY, | BZ, | CA, | CH, |
| | | CN, | CO, | CR, | CU, | CZ, | DE, | DK, | DM, | DZ, | EC, | EE, | EG, | ES, | FI, | GB, | GD, |
| | | GE, | GH, | GM, | HR, | HU, | ID, | IL, | IN, | IS, | JP, | KE, | KG, | KP, | KR, | KZ, | LC, |
| | | LK, | LR, | LS, | LT, | LU, | LV, | MA, | MD, | MG, | MK, | MN, | MW, | MX, | MZ, | NA, | NI, |
| | | NO, | NZ, | OM, | PG, | PH, | PL, | PT, | RO, | RU, | SC, | SD, | SE, | SG, | SK, | SL, | SY, |
| | | TJ, | TM, | TN, | TR, | TT, | TZ, | UA, | UG, | US, | UZ, | VC, | VN, | YU, | ZA, | ZM, | ZW |
| | RW: | BW, | GH, | GM, | KE, | LS, | MW, | MZ, | NA, | SD, | SL, | SZ, | TZ, | UG, | ZM, | ZW, | AM, |
| | | AZ, | BY, | KG, | KZ, | MD, | RU, | TJ, | TM, | AT, | BE, | BG, | CH, | CY, | CZ, | DE, | DK, |
| | | EE, | ES, | FI, | FR, | GB, | GR, | HU, | IE, | IS, | IT, | LT, | LU, | MC, | NL, | PL, | PT, |
| | | RO, | SE, | SI, | SK, | TR, | BF, | BJ, | CF, | CG, | CI, | CM, | GA, | GN, | GQ, | GW, | ML, |
| | | MR, | NE, | SN, | TD, | TG | | | | | | | | | | | |
| ΕP | 2 1709046 | | | | A1 | 20061011 | | | 1 | EP 2 | 005- | 7020 | | 20050127 | | | |
| | R: | AT, | BE, | CH, | DE, | DK, | ES, | FR, | GB, | GR, | IT, | LI, | LU, | NL, | SE, | MC, | PT, |
| | | IE, | SI, | LT, | LV, | FI, | RO, | CY, | TR, | BG, | CZ, | EE, | HU, | PL, | SK, | HR, | IS |
| JP | 2007519694 | | | | T | | 2007 | 0719 | | JP 2 | 006- | 20050127 | | | | | |

US 20070161673 A1 20070712 US 2006-587989 20060728 PRIORITY APPLN. INFO.: GB 2004-2137 A 20040131 WO 2005-GB274 W 20050127

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT OTHER SOURCE(S): CASREACT 143:211909; MARPAT 143:211909

GI

- * STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY AVAILABLE VIA OFFLINE PRINT *
- AB Title compds. I [A = (un)substituted fused 5-membered heteroaryl ring containing one or two heteroatoms independently selected from 0 and N, R1 = Me or C1; R2 = NHCOR3 or CONH(CH2)qR4; R3 = H, alkyl, CF3, etc.; R4 = H, cycloalkyl, alkyl, etc.; q = 0-2; X and Y independently = H. Me or halo; W = N or NO or W and Z are each independently selected from N and NO] and their pharmaceutically acceptable salts, are prepared and disclosed as 938 kinase inhibitors. Thus, e.g., II was prepared by coupling of N-cyclopropyl-4-methyl-3-(IH-pyrazolo[3,4-c]pyridin-5-yl)benzamide (preparation given) with isopropylsulfonylchloride. The activity of I was evaluated in fluorescence anisotropy kinase binding assays and it was revealed that compds. of the invention displayed IC50 values of <10 µM or pKi values of >6. I as p38 kinase inhibitor should prove useful in the treatment of disease states mediated by p38 kinase. Pharmaceutical compns. comprising I are disclosed.
- IT 862169-93-5P 862169-94-6P 862169-96-8P
 RI: PAC (Pharmacological activity); RCI (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACI (Reactant or reagent); USES (Uses)

(preparation of fused heteroaryl derivs. as p38 kinase inhibitors)
RN 862169-93-5 HCAPLUS

CN Benzamide, N-cyclopropy1-3-fluoro-4-methyl-5-[1-(3-methylphenyl)-1H-pyrazolo[3,4-c]pyridin-5-yl]- (CA INDEX NAME)

RN 862169-94-6 HCAPLUS

CN Benzamide, N-cyclopropyl-4-methyl-3-(1-phenyl-1H-pyrazolo[3,4-c]pyridin-5-yl)- (CA INDEX NAME)

- RN 862169-96-8 HCAPLUS
- CN Benzamide, N-cyclopropyl-3-[1-(2-fluorophenyl)-1H-pyrazolo[3,4-c]pyridin-5-yl]-4-methyl- (CA INDEX NAME)

- IT 862169-84-4P 862169-85-5P 862169-86-6P 862169-87-7P 862169-88-8P 862169-89-9P
 - 862169-90-2P 862169-91-3P 862169-92-4P 862169-95-7P 862169-97-9P 862169-98-0P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

- (preparation of fused heteroaryl derivs. as p38 kinase inhibitors)
- RN 862169-84-4 HCAPLUS
- CN Benzamide, N-cyclopropyl-4-methyl-3-[1-[(1-methylethyl)sulfonyl]-1Hpyrazolo[3,4-c]pyridin-5-yl]- (CA INDEX NAME)

- RN 862169-85-5 HCAPLUS
- CN Benzamide, N-cyclopropyl-4-methyl-3-[1-(2-thienylsulfonyl)-1H-pyrazolo[3,4-c]pyridin-5-yl]- (CA INDEX NAME)

- RN 862169-86-6 HCAPLUS
- CN Benzamide, N-cyclopropyl-3-fluoro-4-methyl-5-[1-(2-thienylsulfonyl)-1H-pyrazolo[3,4-c]pyridin-5-yl]- (CA INDEX NAME)

- RN 862169-87-7 HCAPLUS
- CN Benzamide, N-cyclopropyl-3-fluoro-4-methyl-5-[1-(phenylsulfonyl)-1H-pyrazolo[3,4-c]pyridin-5-yl]- (CA INDEX NAME)

- RN 862169-88-8 HCAPLUS
- CN Benzamide, N-cyclopropyl-3-fluoro-4-methyl-5-[1-(3-thienylsulfonyl)-1H-pyrazolo[3,4-c]pyridin-5-yl]- (CA INDEX NAME)

- RN 862169-89-9 HCAPLUS
- CN Benzamide, N-cyclopropyl-3-fluoro-4-methyl-5-[3-(3-thienylsulfonyl)-1H-pyrazolo[3,4-c]pyridin-5-yl]- (CA INDEX NAME)

- RN 862169-90-2 HCAPLUS
- CN Benzamide, N-cyclopropyl-3-fluoro-4-methyl-5-[1-(propylsulfonyl)-1H-pyrazolo[3,4-c]pyridin-5-yl]- (CA INDEX NAME)

- RN 862169-91-3 HCAPLUS
- CN Benzamide, N-cyclopropyl-3-fluoro-4-methyl-5-[1-[(1-methylethyl)sulfonyl]-1H-pyrazolo[3,4-c]pyridin-5-yl]- (CA INDEX NAME)

- RN 862169-92-4 HCAPLUS
- CN Benzamide, N-cyclopropyl-3-[1-(cyclopropylsulfonyl)-1H-pyrazolo[3,4-c]pyridin-5-yl]-5-fluoro-4-methyl- (CA INDEX NAME)

- RN 862169-95-7 HCAPLUS
- CN Benzamide, N-cyclopropyl-3-fluoro-4-methyl-5-[1-(3-methylphenyl)-6-oxido-1H-pyrazolo[3,4-c]pyridin-5-yl]- (CA INDEX NAME)

- RN 862169-97-9 HCAPLUS
- CN Benzamide, N-cyclopropyl-4-methyl-3-(6-oxido-1-phenyl-1H-pyrazolo[3,4-c]pyridin-5-yl)- (CA INDEX NAME)

RN 862169-98-0 HCAPLUS

CN Benzamide, N-cyclopropyl-3-[1-(2-fluorophenyl)-6-oxido-lH-pyrazolo[3,4-c]pyridin-5-yl]-4-methyl- (CA INDEX NAME)

IT 862170-43-2P 862170-44-3P 862170-48-7P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of fused heteroaryl derivs. as p38 kinase inhibitors)

RN 862170-43-2 HCAPLUS

CN Benzamide, 3-(1-acetyl-1H-pyrazolo[3,4-c]pyridin-5-yl)-N-cyclopropyl-4methyl- (CA INDEX NAME)

RN 862170-44-3 HCAPLUS

CN Benzamide, N-cyclopropyl-4-methyl-3-(1H-pyrazolo[3,4-c]pyridin-5-yl)- (CA INDEX NAME)

RN 862170-48-7 HCAPLUS

CN Benzamide, N-cyclopropyl-3-fluoro-4-methyl-5-(1H-pyrazolo[3,4-c]pyridin-5-yl)- (CA INDEX NAME)

OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)

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SEARCH HISTORY

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1.3

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L9

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51 SEA ABB=ON ("BAMBOROUGH P"/AU OR "BAMBOROUGH PAUL"/AU OR
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E PATEL VIPULKUMAR/AU

69 SEA ABB=ON ("PATEL VIPUL R"/AU OR "PATEL VIPUL V"/AU OR
"PATEL VIPULKUMAR"/AU OR "PATEL VIPULKUMAR K"/AU OR "PATEL
VIPULKUMAR KANTILAL"/AU)
OR "PATEL VIPULKUMAR KANTILAL"/AU)

L4 0 SEA ABB=ON L1 AND L2 AND L3

L5 118 SEA ABB=ON L1 OR L2 OR L3

L6 16 SEA ABB=ON L5 AND ?HETEROARYL? L7 9 SEA ABB=ON L6 AND P38

9 SEA ABB=ON L7 AND P38(W)?KINASE?

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131 SEA ABB=ON (100-07-2/BI OR 100-63-0/BI OR 10147-36-1/BI OR 10147-37-2/BI OR 102645-33-0/BI OR 1192-21-8/BI OR 131379-14-1/ BI OR 131379-16-3/BI OR 139631-62-2/BI OR 151073-70-0/BI OR 16110-09-1/BI OR 165245-96-5/BI OR 16629-19-9/BI OR 181705-93-1 /BI OR 220213-92-3/BI OR 23056-33-9/BI OR 2368-80-1/BI OR 254454-47-2/BI OR 300825-30-3/BI OR 307496-28-2/BI OR 312693-08 -6/BI OR 312693-42-8/BI OR 349-88-2/BI OR 350-28-7/BI OR 38496-18-3/BI OR 403-43-0/BI OR 40381-90-6/BI OR 4524-93-0/BI OR 51175-71-4/BI OR 515131-35-8/BI OR 515135-67-8/BI OR 5271-67-0/BI OR 536-89-0/BI OR 585544-30-5/BI OR 67-64-1/BI OR 73027-79-9/BI OR 73183-34-3/BI OR 79-03-8/BI OR 79-30-1/BI OR 80466-79-1/BI OR 861905-31-9/BI OR 861905-38-6/BI OR 861905-43-3/BI OR 861905-50-2/BI OR 861905-51-3/BI OR 861905-94-4/BI OR 862169-84-4/BT OR 862169-85-5/BT OR 862169-86-6/BT OR 862169-87 -7/BI OR 862169-88-8/BI OR 862169-89-9/BI OR 862169-90-2/BI OR 862169-91-3/BI OR 862169-92-4/BI OR 862169-93-5/BI OR 862169-94 -6/BI OR 862169-95-7/BI OR 862169-96-8/BI OR 862169-97-9/BI OR 862169-98-0/RT OR 862169-99-1/RT OR 862170-00-1/RT OR 862170-01 -2/BI OR 862170-02-3/BI OR 862170-03-4/BI OR 862170-04-5/BI OR 862170-05-6/BI OR 862170-06-7/BI OR 862170-07-8/BI OR 862170-08 -9/BI OR 862170-09-0/BI OR 862170-10-3/BI OR 862170-11-4/BI OR 862170-12-5/BI OR 862170-13-6/BI OR 862170-14-7/BI OR 862170-15 -8/BI OR 862170-16-9/BI OR 862170-17-0/BI OR 862170-18-1/BI OR 862170-19-2/BI OR 862170-20-5/BI OR 862170-21-6/BI OR 862170-22 -7/BI OR 862170-23-8/BI OR 862170-24-9/BI OR 862170-25-0/BI OR 862170-26-1/BI OR 862170-27-2/BI OR 862170-28-3/BI OR 862170-29 -4/BI OR 862170-30-7/BI OR 862170-31-8/BI OR 862170-32-9/BI OR 862170-33-0/BI OR 862170-34-1/BI OR 862170-35-2/BI OR 862170-36 -3/BI OR 862170-37-4/BI OR 862170-38-5/BI OR 862170-39-6/BI OR 862170-40-9/BI OR 862170-41-0/BI OR 862170-42-1/BI OR 862170-43

-2/BI OR 862170-44-3/BI OR 862170-45-4/BI OR 862170-46-5/BI OR 862170-47-6/BI OR 862170-48-7/BI OR 862170-49-8/BI OR 862170-50-1/BI OR 862170-51-2/BI OR 862170-52-3/BI OR 86

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FILE 'REGISTRY' ENTERED AT 12:29:34 ON 23 DEC 2010 STRUCTURE 862170-48-7

L11 STRUCTURE 86217 L12 2 SEA SSS SAM L11

L13 21 SEA SSS FUL L11

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